

**GCCS TACTICAL C4I APPLICATIONS
IMAGERY SEGMENTS
VERSION 2.2.8**

INSTALLATION PROCEDURES

TABLE OF CONTENTS

1. <i>IMAGERY PRE-INSTALLATION PROCEDURE</i>	2
2. <i>NITF SERVICES</i>	3
Requirements:	3
Installation:	3
3. <i>ITS CLIENT</i>	4
Requirements:	4
Installation:	4
4. <i>ITS APPLICATIONS</i>	4
Requirements:	4
Installation:	4
5. <i>ITS SERVER</i>	4
Requirements:	4
Installation:	5
6. <i>IES (IMAGE EXPLOITATION SERVICES)</i>	5
Requirements:	5
Installation:	5
7. <i>ICT (IMAGE COMPOSITION TOOL)</i>	5
Requirements:	5
Installation:	6
8. <i>UDIE (UNIVERSAL DATA IMPORT and EXPORT)</i>	6
Requirements:	6
Installation:	6
9. <i>IMAGE MANAGER</i>	6
Requirements:	6
Installation:	7
10. <i>IMAGE VIEWER</i>	7
Requirements:	7
Installation:	7
11. <i>ICS SERVER</i>	7
Requirements:	7
Installation:	7
12. <i>ICS CLIENT</i>	8
Requirements:	8
Installation:	8
13. <i>IPS (IMAGE PRINTER SERVICES)</i>	8
Requirements:	8
Installation:	8
14. <i>AIIM (AUTOMATED IMAGE IMPORT MODULE)</i>	10
Requirements:	10
15. <i>POSTINSTALL</i>	10
Postinstall Notes for ALL (ITS Server, ITS Client, JDISS Server, JDISS Client)	10
Additional Postinstall Configuration for ITS Server	11
 <i>APPENDIX A - Typical ITS Server Workstation Load Plan</i>	 13
 <i>APPENDIX B - Typical ITS Client Workstation Load Plan</i>	 14

1. IMAGERY PRE-INSTALLATION PROCEDURE

Note: This procedure assumes the Operating System and UB are already loaded.

1. The /etc/hosts file on ALL machines must have the following aliases before loading:
NIPSCDB for the NIPS Server machine (prior to loading SYBCLT)
Imserver for the JDISS Server machine (jdiss license manager server)
DPS_HOST for the ITS Server machine
2. Hostnames and IP Addresses of remote ITS Servers using the same NIPSCDB IMDB and IPA servers that will be queried for imagery must also be in the /etc/hosts file. This will allow you to display images stored on a remote ITS server.

Note: The NIPS Client applications may be loaded before or after the imagery segments.

Note: If this is the NIS+ Server/EM Server machine, then after rebooting you must also reboot the NIS+ Client machines.

2. NITF SERVICES

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of NITF Services:

OS (Operating System)
UB (Unified Build)

Installation:

1. Using the SysAdmin Segment Installer utility, load **NITF Services**.

Note: If this is the first time NITF Services is loaded for this network, then you will be prompted for NITF message defaults like security and originator. You may set these default values and they will be inserted into the nitf image header every time an image is saved. There will be no prompts if this is not the first

NITF

Services load for the network.

(/h/data/global/NITFS/nsdefaults is the name of the file that gets edited)

3. ITS CLIENT

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of ITS Client:

OS (Operating System)
UB (Unified Build)
NITF Services

Installation:

1. Using the SysAdmin Segment Installer utility, load **ITS Client**.

4. ITS APPLICATIONS

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of ITS Applications:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client

Installation:

1. Using the SysAdmin Segment Installer utility, load **ITS Applications**.

5. ITS SERVER

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of ITS Server:

OS (Operating System)
UB (Unified Build)
NITF Services

ITS Client
ITS Applications
Sybase Client

Installation:

Note: *Install only on one machine on the network.*

Note: *The JDISS IPA Client Segment must not be installed on the same machine as the ITSSVR. The ITSSVR IPA standing query and IPA adhoc query use the same services port # as the JDISS IPA Client*

1. Using the SysAdmin Segment Installer utility, load **ITS Server**.

Note: *System should be rebooted before using the ITS Server (see postinstall configuration)*

6. IES (IMAGE EXPLOITATION SERVICES)

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of IES:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

1. Using the SysAdmin Segment Installer utility, load **Image Exploitation**.

7. ICT (IMAGE COMPOSITION TOOL)

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of ICT:

OS (Operating System)

UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

1. Using the SysAdmin Segment Installer utility, load **Image Composition Tool**

8. UDIE (UNIVERSAL DATA IMPORT and EXPORT)

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of UDIE:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

1. Using the SysAdmin Segment Installer utility, load **Universal Data Import/Export**.

9. IMAGE MANAGER

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of Image Manager:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

1. Using the SysAdmin Segment Installer utility, load **Image Manger**.

10. IMAGE VIEWER

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of IES:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

1. Using the SysAdmin Segment Installer utility, load **Image Viewer**.

11. ICS SERVER

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of ICS Server:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

Note: *Install only on one machine on the network. The machine should be the one*

with its serial port connected for TACO2 communications (i.e. to a STU-III).

1. Using the SysAdmin Segment Installer utility, load **ICS Server**.

12. ICS CLIENT

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of ICS Client:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

1. Using the SysAdmin Segment Installer utility, load **ICS Client**.

13. IPS (IMAGE PRINTER SERVICES)

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of IPS:

OS (Operating System)
UB (Unified Build)
NITF Services
ITS Client
ITS Applications

Installation:

Note: *IPS should first be installed on the JDISS Server machine. The Kodak printer MUST be connected to the JDISS Server machine. IPS uses the Kodak*

printer driver supplied with the JDISS Server segment.

Note: *The default SCSI ID is an environment variable and it is set to 2. The Kodak Printer should be set to SCSI ID 2. This value can be changed to another available SCSI ID if necessary. If you change the SCSI ID on the printer, you must edit a file after installing IPS. Refer to the GCCS Tactical C4I Applications - Imagery Segments System Administrator's Manual for details.*

Note: *A Laser Jet Printer can be connected via the network port or parallel port. If the network port is being used, then the HP Jet Direct Software must be installed and configured on each system that would print to a networked HP Laser Jet Printer.*

1. Using the SysAdmin Segment Installer utility, load **Image Print Services**.

Note: If you are installing IPS on the JDISS Server/Kodak Printer system (lmsvr must be an alias in the /etc/hosts file), then you will be prompted with a Paragon Imaging Installer Menu for configuring the Kodak Printer Driver. If you are not installing IPS on the JDISS Server, then you will not be prompted.

Kodak Printer Driver Configuration

1. When you are installing IPS on the JDISS Server/Kodak Printer system, a Motif Dialog Menu will display to let you configure vvprint. Dialog "Paragon Imaging Installer" pops up.
2. Select "Reconfigure Software already installed on your system". Dialog "Choose Software Modules" pops up.
3. Select "Drivers" radio button
4. Select "VVGeneric SCSI Kernel Driver" from the "Don't Reconfigure List".
5. Select arrow to move it into the "Reconfigure List".
6. Select OK and dialog "X Resource Location" pops up.
7. Select OK for standard location for resource files. Dialog "Paragon Environment" pops up.
8. Input values:
 "Network Wide Temp Directory" = leave blank
 "System Temp Directory" = "/tmp"

9. Select OK and dialog " VVGeneric SCSI Kernel Driver - Configuration Options for VVGeneric SCSI Kernel Driver" pops up.
10. Select "Install Operating System Kernel Driver". and dialog "Question" pops up.
11. Select " Re-install" when prompted with "The VVGeneric SCSI Kernel Driver appears to be installed already"
12. Select "Done" and dialog "Notice" pops up
13. Select OK when prompted with "Done reconfiguring Software"

Note: *The following steps can be done on the command line to display/configure*

the kernel with the Paragon Kodak Printer Driver:

a) cd /h/JDISS/hippie/install

b) ./pi_install

c) Use the above procedure to complete the configuration.

14. AIIM (AUTOMATED IMAGE IMPORT MODULE)

Requirements:

1. Complete the **Imagery Pre-installation Procedure** before installing this segment.
2. The following segments must be installed prior to the installation of AIIM:

OS (Operating System)

UB (Unified Build)

NITF Services

ITS Client

ITS Applications

Installation:

1. Using the SysAdmin Segment Installer utility, load **AIIM**.

15. POSTINSTALL

Postinstall Notes for ALL (ITS Server, ITS Client, JDISS Server, JDISS Client)

1. User Accounts should only be created once and on the EM Server machine and once an account is created, any NIS+ Client should be able to use that user account.
2. User Account ROLES MUST be created on each machine. If a segment is added after the role is created, then you must go and edit that role by toggling OFF and then ON that segment menu option.
3. Select **Imagery Import Export** from the **INTEL** system menu bar and set the 4mm and 8mm tape devices correctly using the UDIE, FILE, PREFERENCES option.

Additional Postinstall Configuration for ITS Server

1. After installing the segments, reboot the ITS Server machine to start the ITS Server process.
- 2 Setting up ITS Disks:
 1. Log in as a user and select **ITS Admin** under the INTEL system menu bar option.
 2. Select **CONFIGURE** and then select the **DISK** option.
 3. Select the **ADD NEW DISK** button.
 4. Select/type the disk/filesystem for ITS to use when storing images.
 5. After each selection press the **ADD** button.
 6. Exit ITS Admin.

Note: Any time the CDBS is rebooted, you must restart the ITS Server by either rebooting it or following the procedure below:

3. Manually re-starting the ITS Server:
 1. Log in as a user and select **ITS Admin** under the **INTEL** system menu bar option.
 2. Select **CONFIGURE** and then select the **SERVER** option.
 3. Select **TERMINATE AND RESTART** button.
 4. Wait for the ITS Admin window to display a message that the ITS Server is normal.
 5. Exit ITS Admin.

APPENDIX A - Typical ITS Server Workstation Load Plan

The following is a typical GCCS ITS SERVER Load Plan:

1. **SYBCLT** - needs NIPSCDB alias first!
2. **NITF Services**
3. **ITS Client**
4. **ITS Applications**
5. **ITS Server**
6. **IES**
7. **UDIE**
8. **ICT**
9. **Image Viewer**
10. **Image Manager**
11. **IPS**
12. **ICS Server**
13. **ICS Client**
14. **AIIM**

APPENDIX B - Typical ITS Client Workstation Load Plan

The following is a typical GCCS ITS Client Load Plan:

1. **NITF Services**
2. **ITS Client**
3. **ITS Applications**
4. **IES**
5. **UDIE**
6. **ICT**
7. **Image Viewer**
8. **Image Manager**
9. **IPS**
10. **ICS Client** - recommended only to be installed on 1 or 2 systems